

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau**BC**

## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>A01N 1/02, C12N 5/00, 5/02</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 97/21347</b> <b>(43) International Publication Date:</b> 19 June 1997 (19.06.97)
<b>(21) International Application Number:</b> PCT/US96/20050 <b>(22) International Filing Date:</b> 16 December 1996 (16.12.96)  <b>(30) Priority Data:</b> 08/574,452 15 December 1995 (15.12.95) US  <b>(71) Applicant:</b> AVECOR CARDIOVASCULAR, INC. [US/US]; 13010 County Road 6, Plymouth, MN 55441 (US).  <b>(72) Inventor:</b> CODNER, Meryl; 1441 Albany Avenue, St. Paul, MN 55108 (US).  <b>(74) Agents:</b> GOLDMAN, Philip, M. et al.; Fredrikson & Byron, P.A., 1100 International Centre, 900 Second Avenue South, Minneapolis, MN 55402 (US).		<b>(81) Designated States:</b> AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> CELL CULTURE APPARATUS AND METHOD  <b>(57) Abstract</b>  A cell culture apparatus formed of a plurality of thin (e.g., 0.005" or less), spaced, gas-permeable, silicone membranes sealed at their edges to form a bag-like vessel comprising one or more interior chambers suitable for containing cell culture media. A suitable portion of the membrane surfaces are of suitable thickness and surface area to provide structural integrity to the apparatus and sufficient gas permeability for cell growth within the chamber.		